

General Index of Articles and Editorials

(COMBUSTION—Vol. 5, No. 1, July, 1933, to and including Vol. 5, No. 12, June, 1934)

EDITORIALS—

Advance in Fuel Oil Prices Favor Coal in East.....	(June 1934) 9	Corrosion in Steam Generating Stations and Its Correction. By Sheppard T. Powell.....	(Jan. 1934) 14
A Fair Weather Indication.....	(Mar. 1934) 9	Derivation of Combustion Formulas. By P. B. Place..... (Feb. 1934) 29	
A.S.M.E. Papers Available.....	(Nov. 1933) 5	Design Features of the Port Washington Power Plant. By G. G. Post.....	(Aug. 1933) 11
Are the Utilities Overbuilt?.....	(Aug. 1933) 5	Developments in the Burning of Iowa Coal. By John M. Drabell.....	(May 1934) 32
A Time for Action.....	(Aug. 1933) 5	Development of Formula to Determine CO ₂ in Products of Combustion. By P. B. Place and J. Cruise.....(Oct. 1933) 28	
Be Sure of Your Boilers.....	(Mar. 1934) 9	Draft Losses in Steam Plants. By J. G. Mingle..(May 1933) 22	
Boiler Industry Code, The.....	(Nov. 1933) 5	Education of the Rankine Cycle, The. By Joseph H. Keenan (Sept. 1933) 9	
Commercial Use of New Navy Compound.....	(Feb. 1934) 5	Electric Steam Boilers. By C. E. Cannon and A. D. Snedden (Oct. 1933) 23	
Congratulations.....	(June 1934) 9	Experiments Regarding Circulation in Vertical-Tube Boilers. By Dr.-Ing. Ernst Schmidt.....(Aug. 1933) 6	
Cooperation Instead of Competition.....	(Feb. 1934) 5	Factors Limiting Sensitivity and Accuracy of Test for Dis- solved Oxygen. By Salvator Alfano.....(Mar. 1934) 16	
Engineering Week—Chicago, June 25-July 1.....	(June-July 1933) 7	Fan Maintenance. By A. R. Mumford.....(Sept. 1933) 11	
Engineers and Employment.....	(Dec. 1933) 6	Fusion Characteristics of Fractionated Coal Ashes. By A. H. Moody and D. D. Langan, Jr.....(Oct. 1933) 15	
Fan Development and Research.....	(April 1933) 6	Heat Cycles and Their Relative Efficiencies. By F. H. Rosencrantz.....	(April 1934) 15
Federal Power Survey, The.....	(May 1934) 8	Heat Cycles and Their Relative Efficiencies—A Symposium. By A. G. Christie, Frank S. Clark, G. A. Hendrickson, A. D. Bailey and Alfred Iddles.....	(May 1934) 9
High-Temperature Experience at Detroit.....	(Nov. 1933) 5	Heat Transfer in Air Heaters and Economizers. By Henry Kreisinger.....	(Dec. 1933) 7
Interest in Interconnection Revived.....	(Jan. 1934) 7	High-Temperature Steam Experience at Detroit. By P. W. Thompson and R. M. Van Duzer, Jr.....(Nov. 1933) 13	
Is There Excess Utility Capacity?.....	(Jan. 1934) 7	Improving Power Plant Performance. By E. H. Krieg..... (June 1934) 25	
Mechanical Engineering Projects Entitled to Government Aid (Oct. 1933) 5		Load Regulation by Pressure with the Benson Boiler (June 1934) 28	
Minimum Setting Heights When Using Solid Fuel. (Oct. 1933) 5		Making Garbage Light City Streets. By L. J. Schrenk..... (Feb. 1934) 7	
Municipal Power Projects.....	(Dec. 1933) 6	Manufacture and Marketing of Steam in Manhattan. By A. R. Mumford.....	(Feb. 1934) 22
Navy Feedwater Formula, The.....	(Dec. 1933) 6	Measurement and Properties of Cinders and Fly-Ash, The. By Arthur C. Stern.....(June-July 1933) 35	
Obsolete Boiler and Firing Equipment.....	(June 1934) 9	Measurement of Nozzle Efficiency. By Winston R. New..... (May 1934) 35	
Plant Engineering.....	(May 1934) 8	Mill Drying at Lakeside. By M. E. Fitz.....(June 1934) 22	
Power from Garbage.....	(Feb. 1934) 5	Oskar von Miller. By Calvin W. Rice.....(May 1934) 7	
Progress in Smoke Abatement.....	(Sept. 1933) 10	Models of Notable Power Plants of British Design (Mar. 1934) 22	
Questionable Economics.....	(April 1934) 9	Richard Mollier. By Joseph H. Keenan.....(Dec. 1933) 5	
Relation of the Naval Program to Industry.....	(April 1934) 9	"Natural Silicates—Their Deposition as Objectionable Forma- tions Within Boilers." By Cyrus Wm. Rice..(June 1934) 16	
Rising Fuel Prices Demand Better Efficiency.....	(Oct. 1933) 5	New Dust Collector Employs Double Eddy Currents..... (April 1934) 23	
Steam Cycles.....	(April 1934) 9	New Navy Compound Discussed. By R. E. Hall, Cyrus W. Rice, J. A. Holmes and A. C. Purdy.....(Jan. 1934) 32	
Stimulating Engineering Society Membership.....	(May 1934) 8	Oil Firing in Pulverized Coal Furnaces. By James F. Muir (June-July 1933) 8	
Too Many Cooks Spoil the Broth.....	(Sept. 1933) 10	Patents. By George Ramsey.....(Sept. 1933–April 1934) Part 11. Interference Procedure (Continued) (Sept. 1933) 25	
Trends in Power Plant Design.....	(Mar. 1934) 9	Part 12. Interference Procedure (Continued) (Oct. 1933) 18	

ARTICLES—

A Critical Study of Boiler Scales and Advanced Methods of Analyses and Identification. By Sheppard T. Powell..... (Sept. 1933) 15	Part 13. Interference Procedure (Continued) (Nov. 1933) 29
A Cubic Foot of Heat. By George P. Pearce....(Oct. 1933) 39	Part 14. Interference Procedure (Continued) (Jan. 1934) 23
Air Leakage in Steam Generating Units. Part 1. By W. S. Patterson.....	Part 15. Interference Procedure (Concluded) (April 1934) 30
Air Leakage in Steam Generating Units. Part 2. By W. S. Patterson.....	Performance of the Gilbert Station. By James A. Powell..... (April 1934) 10
Air Leakage in Steam Generating Units. Part 3. By W. S. Patterson.....	Plant Engineering—A Message to Engineering Students. By F. M. Gibson.....(May 1934) 20
A Method for Determining True pH Values. By James N. Evans.....	Plate-Type Air Heater Development and Present Status in the United States. By W. S. Patterson.....(Nov. 1933) 7
A Modern Steam Generator with Combination Pulverized Coal and Wood Firing. By Dr. Ing. Kurt Heimrich (Jan. 1934) 9	Power and Heat Cost Analysis for Industrial Plants. By Louis A. Offer.....(Dec. 1933) 39
A New Boiler-Water Treatment for the United States Navy. By Thorvald A. Solberg and R. C. Adams, Jr....(Dec. 1933) 24	Prime Movers Report on Stoker Equipment and Furnaces.... (Oct. 1933) 32
Anthracite as a Filter Medium. By H. G. Turner and G. S. Scott.....	Principles of Underfeed Combustion and the Effect of Pre- heated Air on Overfeed and Underfeed Fuel Beds. By P. Nicholls and M. G. Eilers.....(June-July 1933) 15
A Review of Recent European Boiler Designs....(Sept. 1933) 20	
Barking Station Extension Brings Capacity up to 390,000 Kilowatts. By David Brownlie.....(June 1934) 11	
Blackburn Meadows—Sheffield's New Power Station..... (Sept. 1933) 31	
Boiler Capacity Has Outgrown Its Terminology. By Otto de Lorenzi.....	
Burning Characteristics of Pulverized Coals and the Radiation from Their Flames. By Ralph A. Sherman...(Dec. 1933) 30	
Causes and Prevention of Calcium Sulphate Scale in Steam Boilers.....	
Code of Fair Competition for the Boiler Manufacturing Industry.....	
Colloids in Boiler-Water Conditioning. By Henry T. Hotchkiss, Jr.....	
Combined Steam and Electric Services. By Kerr Atkinson.. (Jan. 1934) 22	
Combustion Characteristics of Mixed Fuels. By P. B. Place and J. Cruise.....	
Correlation of "Grindability" with Actual Pulverizer Per- formance. By Martin Frisch and G. C. Holder..... (June-July 1933) 29	

General Index of Articles and Editorials

(COMBUSTION—Vol. 5, No. 1, July, 1933, to and including Vol. 5, No. 12, June, 1934)

EDITORIALS—

Advance in Fuel Oil Prices Favor Coal in East.....	(June 1934) 9	Corrosion in Steam Generating Stations and Its Correction. By Sheppard T. Powell.....	(Jan. 1934) 14
A Fair Weather Indication.....	(Mar. 1934) 9	Derivation of Combustion Formulas. By P. B. Place..... (Feb. 1934) 29	
A.S.M.E. Papers Available.....	(Nov. 1933) 5	Design Features of the Port Washington Power Plant. By G. G. Post.....	(Aug. 1933) 11
Are the Utilities Overbuilt?.....	(Aug. 1933) 5	Developments in the Burning of Iowa Coal. By John M. Drabell.....	(May 1934) 32
A Time for Action.....	(Aug. 1933) 5	Development of Formula to Determine CO ₂ in Products of Combustion. By P. B. Place and J. Cruise.....(Oct. 1933) 28	
Be Sure of Your Boilers.....	(Mar. 1934) 9	Draft Losses in Steam Plants. By J. G. Mingle..(May 1933) 22	
Boiler Industry Code, The.....	(Nov. 1933) 5	Education of the Rankine Cycle, The. By Joseph H. Keenan (Sept. 1933) 9	
Commercial Use of New Navy Compound.....	(Feb. 1934) 5	Electric Steam Boilers. By C. E. Cannon and A. D. Snedden (Oct. 1933) 23	
Congratulations.....	(June 1934) 9	Experiments Regarding Circulation in Vertical-Tube Boilers. By Dr.-Ing. Ernst Schmidt.....(Aug. 1933) 6	
Cooperation Instead of Competition.....	(Feb. 1934) 5	Factors Limiting Sensitivity and Accuracy of Test for Dis- solved Oxygen. By Salvator Alfano.....(Mar. 1934) 16	
Engineering Week—Chicago, June 25-July 1.....	(June-July 1933) 7	Fan Maintenance. By A. R. Mumford.....(Sept. 1933) 11	
Engineers and Employment.....	(Dec. 1933) 6	Fusion Characteristics of Fractionated Coal Ashes. By A. H. Moody and D. D. Langan, Jr.....(Oct. 1933) 15	
Fan Development and Research.....	(April 1933) 6	Heat Cycles and Their Relative Efficiencies. By F. H. Rosencrantz.....	(April 1934) 15
Federal Power Survey, The.....	(May 1934) 8	Heat Cycles and Their Relative Efficiencies—A Symposium. By A. G. Christie, Frank S. Clark, G. A. Hendrickson, A. D. Bailey and Alfred Iddles.....	(May 1934) 9
High-Temperature Experience at Detroit.....	(Nov. 1933) 5	Heat Transfer in Air Heaters and Economizers. By Henry Kreisinger.....	(Dec. 1933) 7
Interest in Interconnection Revived.....	(Jan. 1934) 7	High-Temperature Steam Experience at Detroit. By P. W. Thompson and R. M. Van Duzer, Jr.....(Nov. 1933) 13	
Is There Excess Utility Capacity?.....	(Jan. 1934) 7	Improving Power Plant Performance. By E. H. Krieg..... (June 1934) 25	
Mechanical Engineering Projects Entitled to Government Aid (Oct. 1933) 5		Load Regulation by Pressure with the Benson Boiler (June 1934) 28	
Minimum Setting Heights When Using Solid Fuel. (Oct. 1933) 5		Making Garbage Light City Streets. By L. J. Schrenk..... (Feb. 1934) 7	
Municipal Power Projects.....	(Dec. 1933) 6	Manufacture and Marketing of Steam in Manhattan. By A. R. Mumford.....	(Feb. 1934) 22
Navy Feedwater Formula, The.....	(Dec. 1933) 6	Measurement and Properties of Cinders and Fly-Ash, The. By Arthur C. Stern.....(June-July 1933) 35	
Obsolete Boiler and Firing Equipment.....	(June 1934) 9	Measurement of Nozzle Efficiency. By Winston R. New..... (May 1934) 35	
Plant Engineering.....	(May 1934) 8	Mill Drying at Lakeside. By M. E. Fitz.....(June 1934) 22	
Power from Garbage.....	(Feb. 1934) 5	Oskar von Miller. By Calvin W. Rice.....(May 1934) 7	
Progress in Smoke Abatement.....	(Sept. 1933) 10	Models of Notable Power Plants of British Design (Mar. 1934) 22	
Questionable Economics.....	(April 1934) 9	Richard Mollier. By Joseph H. Keenan.....(Dec. 1933) 5	
Relation of the Naval Program to Industry.....	(April 1934) 9	"Natural Silicates—Their Deposition as Objectionable Forma- tions Within Boilers." By Cyrus Wm. Rice..(June 1934) 16	
Rising Fuel Prices Demand Better Efficiency.....	(Oct. 1933) 5	New Dust Collector Employs Double Eddy Currents..... (April 1934) 23	
Steam Cycles.....	(April 1934) 9	New Navy Compound Discussed. By R. E. Hall, Cyrus W. Rice, J. A. Holmes and A. C. Purdy.....(Jan. 1934) 32	
Stimulating Engineering Society Membership.....	(May 1934) 8	Oil Firing in Pulverized Coal Furnaces. By James F. Muir (June-July 1933) 8	
Too Many Cooks Spoil the Broth.....	(Sept. 1933) 10	Patents. By George Ramsey.....(Sept. 1933–April 1934) Part 11. Interference Procedure (Continued) (Sept. 1933) 25	
Trends in Power Plant Design.....	(Mar. 1934) 9	Part 12. Interference Procedure (Continued) (Oct. 1933) 18	

ARTICLES—

A Critical Study of Boiler Scales and Advanced Methods of Analyses and Identification. By Sheppard T. Powell..... (Sept. 1933) 15	Part 13. Interference Procedure (Continued) (Nov. 1933) 29
A Cubic Foot of Heat. By George P. Pearce....(Oct. 1933) 39	Part 14. Interference Procedure (Continued) (Jan. 1934) 23
Air Leakage in Steam Generating Units. Part 1. By W. S. Patterson.....	Part 15. Interference Procedure (Concluded) (April 1934) 30
Air Leakage in Steam Generating Units. Part 2. By W. S. Patterson.....	Performance of the Gilbert Station. By James A. Powell..... (April 1934) 10
Air Leakage in Steam Generating Units. Part 3. By W. S. Patterson.....	Plant Engineering—A Message to Engineering Students. By F. M. Gibson.....(May 1934) 20
A Method for Determining True pH Values. By James N. Evans.....	Plate-Type Air Heater Development and Present Status in the United States. By W. S. Patterson.....(Nov. 1933) 7
A Modern Steam Generator with Combination Pulverized Coal and Wood Firing. By Dr. Ing. Kurt Heimrich (Jan. 1934) 9	Power and Heat Cost Analysis for Industrial Plants. By Louis A. Offer.....(Dec. 1933) 39
A New Boiler-Water Treatment for the United States Navy. By Thorvald A. Solberg and R. C. Adams, Jr....(Dec. 1933) 24	Prime Movers Report on Stoker Equipment and Furnaces.... (Oct. 1933) 32
Anthracite as a Filter Medium. By H. G. Turner and G. S. Scott.....	Principles of Underfeed Combustion and the Effect of Pre- heated Air on Overfeed and Underfeed Fuel Beds. By P. Nicholls and M. G. Eilers.....(June-July 1933) 15
A Review of Recent European Boiler Designs....(Sept. 1933) 20	
Barking Station Extension Brings Capacity up to 390,000 Kilowatts. By David Brownlie.....(June 1934) 11	
Blackburn Meadows—Sheffield's New Power Station..... (Sept. 1933) 31	
Boiler Capacity Has Outgrown Its Terminology. By Otto de Lorenzi.....(Mar. 1934) 10	
Burning Characteristics of Pulverized Coals and the Radiation from Their Flames. By Ralph A. Sherman...(Dec. 1933) 30	
Causes and Prevention of Calcium Sulphate Scale in Steam Boilers.....	
Code of Fair Competition for the Boiler Manufacturing Industry.....	
Colloids in Boiler-Water Conditioning. By Henry T. Hotchkiss, Jr.....	
Combined Steam and Electric Services. By Kerr Atkinson.. (Jan. 1934) 22	
Combustion Characteristics of Mixed Fuels. By P. B. Place and J. Cruise.....(Jan. 1934) 29	
Correlation of "Grindability" with Actual Pulverizer Per- formance. By Martin Frisch and G. C. Holder..... (June-July 1933) 29	

Progress in Steam Power Engineering.....(Jan. 1934)	19	Combustion Characteristics of Mixed Fuels.....(Jan. 1934)	29
Progress in the Removal of Sulphur Compounds from Waste Gases. By H. F. Johnstone.....(Aug. 1933)	19	de Lorenzi, Otto Boiler Capacity Has Outgrown Its Terminology.....(Mar. 1934)	10
Real Efficiency of a Power Plant, The. By N. T. Pef.....(Oct. 1933)	30	Drabelle, John M. Developments in the Burning of Iowa Coal. (May 1934)	32
Regenerative Air Preheater. By C. E. Creutz. (Mar. 1934)	33	Dresher, A. C. Winkler Test for Determining Oxygen in Boiler Feed Water, The.....(April 1934)	18
Removal of Sulphur Compounds from Stack Gases in Great Britain. By David Brownlie.....(Feb. 1934)	18	Eilers, M. G. Principles of Underfeed Combustion and the Effect of Pre-heated Air on Overfeed and Underfeed Fuel Beds, The. (June-July 1933)	15
Removal of Sulphur Dioxide in Flue Gas. By C. E. Scott.....(Mar. 1934)	29	Ellenwood, F. O. Thermal Performance of the Detroit Turbine Using Steam at 1000 Deg. Fahr., The.....(Dec. 1933)	12
Short-Cuts and Extrapolations in Testing Metals at High Temperatures. Shall It Be Attacked?.....(Feb. 1934)	16	Evans, J. N. A Method for Determining True pH Values....(Oct. 1933)	12
Solubility of Sodium Sulphate and Embrittlement. Abstract of paper by W. C. Schroeder and E. P. Partridge (Dec. 1933)	11	Finnegan, Thomas J. Winkler Oxygen Method, The.....(June 1934)	31
Some Experiences with the Benson Boiler.....(Mar. 1934)	25	Fitz, M. E. Mill Drying at Lakeside.....(June 1934)	22
Some Notes on Evaporators for Power Plant Use. By C. W. Messersmith.....(June 1934)	14	Frisch, Martin Correlation of "Grindability" with Actual Pulverizer Performance.....(June-July 1933)	29
Standby and Reserve Operation of a Pulverized Fuel Plant. By E. H. Tenney.....(Aug. 1933)	7	Gibson, F. M. Plant Engineering—A Message to Engineering Students ..(May 1934)	20
Steam Chosen over Diesels for Municipal Plant. By C. F. Lambert.....(Oct. 1933)	32	Hall, R. E. Discussion on "New Navy Compound".....(Jan. 1934)	32
Steam Releasing Surface, or Steam Releasing Space? By Dr. Ing. H. Vorkauf.....(April 1933)	29	Heinrich, Dr. Ing. Kurt A Modern Steam Generator with Combination Pulverized Coal and Wood Firing.....(Jan. 1934)	9
Summary of Prime Movers' Report on Pulverized Fuel.....(Sept. 1933)	22	Hendrickson, G. A. Discussion on "Heat Cycles and Their Relative Efficiencies" (May 1934)	9
Supersaturated Steam. By John I. Yellot, Jr....(Nov. 1933)	12	Holder, G. C. Correlation of "Grindability" with Actual Pulverizer Performance.....(June-July 1933)	29
Thermal Performance of the Detroit Turbine Using Steam at 1000 Deg. Fahr., The. By W. A. Carter and F. O. Ellenwood.....(Dec. 1933)	18	Holmes, J. A. Discussion on "New Navy Compound".....(Jan. 1934)	32
Valve Closing Tests under Open-End Conditions at Hudson Avenue Station.....(May 1934)	28	Hotchkiss, Henry T., Jr. Colloids in Boiler-Water Conditioning.....(Feb. 1934)	26
Velox Steam Generator, The. By Adolph Meyer. (May 1934)	31	Iddles, Alfred Discussion on "Heat Cycles and Their Relative Efficiencies" (May 1934)	9
Warranty of Plans and Specifications for Steam Line. By Leslie Childs.....(Feb. 1934)	33	Johnstone, H. F. Progress in the Removal of Sulphur Compounds from Waste Gases.....(Aug. 1933)	19
Water Conditions and Related Problems of Marine Boiler Operation. By A. C. Purdy.....(Feb. 1934)	16	Keenan, Joseph H. Education of the Rankine Cycle, The.....(Sept. 1933)	9
Winkler Test for Determining Oxygen in Boiler Feed Water, The. By J. D. Yoder and A. C. Dresher.....(April 1934)	22	Richard Mollier.....(Dec. 1933)	5
Winkler Oxygen Method, The. By Thomas J. Finnegan and Richard C. Corey.....(June 1934)	9	Kreisinger, Henry Heat Transfer in Air Heaters and Economizers. (Dec. 1933)	7
AUTHORS—		Krieg, E. H. Improving Power Plant Performance.....(June 1934)	25
Adams, R. C., Jr. A New Boiler-Water Treatment for the United States Navy (Dec. 1933)	24	Lambert, C. F. Steam Chosen over Diesels for Municipal Plant. (Oct. 1933)	7
Alfano, Salvatore Factors Limiting Sensitivity and Accuracy of Test for Dissolved Oxygen.....(Mar. 1934)	16	Langman, D. D., Jr. Fusion Characteristics of Fractionated Coal Ashes.....(Oct. 1933)	15
Atkinson, Kerr Combined Steam and Electric Services.....(Jan. 1934)	22	Messersmith, C. W. Some Notes on Evaporators for Power Plant Use (June 1934)	14
Bailey, Alex D. Discussion on "Heat Cycles and Their Relative Efficiencies" (May 1934)	9	Meyer, Adolph Velox Steam Generator, The.....(May 1934)	28
Brownlie, David Barking Station Extension Brings Capacity up to 390,000 Kilowatts.....(June 1934)	11	Moody, A. H. Fusion Characteristics of Fractionated Coal Ashes.....(Oct. 1933)	15
Childs, Leslie Warranty of Plans and Specifications for Steam Line.....(Feb. 1934)	18	Muir, James F. Oil Firing in Pulverized Coal Furnaces....(June-July 1933)	8
Christie, A. G. Discussion on "Heat Cycles and Their Relative Efficiencies" (May 1934)	33	Mumford, A. R. Fan Maintenance.....(Sept. 1933)	11
Clark, Frank S. Discussion on "Heat Cycles and Their Relative Efficiencies" (May 1934)	9	Manufacture and Marketing of Steam in Manhattan.....(Feb. 1934)	22
Corey, Richard C. Winkler Oxygen Method, The.....(June 1934)	31	New, Winston R. Measurement of Nozzle Efficiency.....(May 1934)	35
Creutz, C. E. Regenerative Air Preheater.....(Mar. 1934)	33	Nicholls, P. Principles of Underfeed Combustion and the Effect of Pre-heated Air on Overfeed and Underfeed Fuel Beds, The. (June-July 1933)	15
Cruise, John Development of Formula to Determine CO ₂ in Products of Combustion.....(Oct. 1933)	28		

Offer, Louis A.	
Power and Heat Cost Analysis for Industrial Plants.....	39
(Dec. 1933)	
Partridge, Everett P.	
Solubility of Sodium Sulphate and Embrittlement—Abstract.....	11
(Dec. 1933)	
Patterson, W. S.	
Air Leakage in Steam Generating Units. Part 1(Feb. 1934).....	10
Air Leakage in Steam Generating Units. Part 2(April 1934).....	24
Air Leakage in Steam Generating Units. Part 3(May 1934).....	13
Plate-Type Air Heater Development and Present Status in the United States.....	7
(Nov. 1933)	
Pearce, George P.	
A Cubic Foot of Heat.....	39
(Oct. 1933)	
Pef, N. T.	
Real Efficiency of a Power Plant, The.....	30
(Oct. 1933)	
Place, P. B.	
Combustion Characteristics of Mixed Fuels.....(Jan. 1934).....	29
Derivation of Combustion Formulas.....(Feb. 1934).....	29
Development of Formula to Determine CO ₂ in Products of Combustion	28
(Oct. 1933)	
Post, G. G.	
Design Features of the Port Washington Power Plant.....(Aug. 1933).....	11
Powell, J. A.	
Performance of the Gilbert Station.....(April 1934).....	10
Powell, Sheppard T.	
A Critical Study of Boiler Scales and Advanced Methods of Analyses and Identification.....(Sept. 1933).....	15
Corrosion in Steam Generating Stations and Its Correction.....(Jan. 1934).....	14
Purdy, A. C.	
Discussion on "New Navy Compound".....(Jan. 1934).....	32
Water Conditions and Related Problems of Marine Boiler Operation	31
(Feb. 1934)	
Ramsey, George	
Patents. Parts 11 to 15.....(Sept. 1933–April 1934).....	32
See Patents—Article Index	
Rice, Cyrus W.	
Discussion on "New Navy Compound".....(Jan. 1934).....	32
"Natural Silicates—Their Deposition as Objectionable Formations Within Boilers".....(June 1934).....	16
Rice, Calvin W.	
Oskar von Miller.....(May 1934).....	7
Rosencrantz, F. H.	
Heat Cycles and Their Relative Efficiencies.....(April 1934).....	15
Schmidt, Dr.-Ing. Ernst	
Experiments Regarding Circulation in Vertical-Tube Boilers.....(Aug. 1933).....	6
Schrenk, L. J.	
Making Garbage Light City Streets.....(Feb. 1934).....	7
Schroeder, W. C.	
Solubility of Sodium Sulphate and Embrittlement—Abstract.....(Dec. 1933).....	11
Scott, C. E.	
Removal of Sulphur Dioxide in Flue Gas.....(Mar. 1934).....	29
Scott, G. S.	
Anthracite as a Filter Medium.....(May 1934).....	23
Sherman, Ralph A.	
Burning Characteristics of Pulverized Coals and the Radiation from Their Flames.....(Dec. 1934).....	30
Snedden, A. D.	
Electric Steam Boilers.....(Oct. 1933).....	23
Solberg, Thorvald A.	
A New Boiler-Water Treatment for the U. S. Navy.....(Dec. 1933).....	24
Stern, Arthur C.	
Measurement and Properties of Cinders and Fly-Ash, The.....(June-July 1933).....	35
Tenney, E. H.	
Standby and Reserve Operation of a Pulverized Fuel Plant.....(Aug. 1933).....	31
Thompson, P. W.	
High-Temperature Steam Experience at Detroit.....(Nov. 1933).....	13
Turner, H. G.	
Anthracite as a Filter Medium.....(May 1934).....	23
Van Duzer, R. M., Jr.	
High-Temperature Steam Experience at Detroit.....(Nov. 1933).....	13
Yellott, John I., Jr.	
Supersaturated Steam.....(Nov. 1933).....	22
Yoder, J. D.	
Winkler Test for Determining Oxygen in Boiler Feed Water, The.....(April 1934).....	18

EQUIPMENT SALES

Boiler, Stoker, Pulverized Fuel

As reported by equipment manufacturers of the Department of Commerce, Bureau of the Census

Boiler Sales

Orders for 165 water-tube and h.r.t. boilers were placed in March and April

	Number	Square Feet
March, 1934.....	61	248,920
April, 1934.....	104	320,501
January to April (inclusive, 1934).....	263	854,416
Same period, 1933.....	178	518,123

NEW ORDERS, BY KIND, PLACED IN MARCH AND APRIL, 1933-1934

Kind	March, 1933		April, 1933		March, 1934		April, 1934	
	Num- ber	Square Feet	Num- ber	Square Feet	Num- ber	Square Feet	Num- ber	Square Feet
Stationary:								
Water tube....	40	151,580	34	112,394	40	219,640	70	273,081
Horizontal return tubular	15	19,318	32	38,555	21	29,280	34	47,420
	55	170,898	66	150,949	61	248,920	104	320,501

Mechanical Stoker Sales

Orders for 192 stokers, Class 4,* totaling 51,919 hp were placed in March and April by 60 manufacturers

Month	Installed under			
	Fire-tube Boilers		Water-tube Boilers	
	No.	Horsepower	No.	Horsepower
March, 1934.....	62	9,110	43	18,459
April, 1934.....	48	5,640	39	18,710
January to April (inclusive, 1934).....	259	32,985	130	57,001
Same period, 1933.....	190	25,891	87	30,226

* Capacity over 300 lb of coal per hr.

Pulverized Fuel Equipment Sales

Orders for 21 pulverizers with a total capacity of 232,610 lb per hr were placed in March and April

Month	STORAGE SYSTEM				
	Pulverizers		Water-tube Boilers		
	Total number	No. for new boilers, furnaces and kilns	No. for existing boilers	Total capacity lb coal per hour for contract	Total sq ft steam-generating surface per hour
March, 1934.....	2	1	1	46,000	..
April, 1934.....	2	1	1	46,000	..
January to April (inclusive, 1934).....	2	2	2	60,000	2 37,000 325,000
Same period, 1933.....	2	..	..	..	..

Month	DIRECT FIRED OR UNIT SYSTEM				
	Pulverizers		Water-tube Boilers		
	5	5	..	102,500	2
March, 1934.....	12	6	6	81,710	9
April, 1934.....	27	18	9	240,210	19
January to April (inclusive, 1934).....	20	14	6	100,650	14
Same period, 1933.....	..	..	..	..	..

Month	Fire-tube Boilers				
	Pulverizers		Water-tube Boilers		
	5	5	..	49,478	670,000
March, 1934.....	4	..	4	4,800	5
April, 1934.....	4	2	2	3,950	4
January to April (inclusive, 1934).....	..	..	..	4,500	20,500
Same period, 1933.....	4	2	2	5,150	26,300



B
L

Vol.